Irisation Satisfaction of the Westland Newsletter of the Westlands Water District

NEWEST CROP REPORT SHOWS STRONG TREND TOWARD PERMANENT CROPS

Each spring, large swatches of Westlands Water District are aflame in brilliant whites and pinks as nut and fruit tree orchards begin their annual cycle of life and productivity. This pageant of color is becoming an ever larger display as more and more farming operations invest in permanent crops like fruit and nut trees to diversify their crop portfolio.

"The trend to more and more permanent crops is very encouraging for farming in Westlands," said Thomas Birmingham, General Manager of the District. "One of the main reasons for this trend is that our water supply has become more stable and dependable in recent years. Planting vineyards and orchards requires confidence that the water these Crops require will be available well into

Since the early 1990s, as California emerged from a major drought, the number of acres planted in permanent crops - fruit and nut trees and vineyards began to slowly increase. The trend has accelerated in recent years, as the District's water supply outlook

"The condection is comistaxable MULH THERE IS A DELIARLE AND ADEQUATE SUPPLY OF WATER, THE FARM-Based Ecoromy will thrive."

vines has more than doubled in Westlands to some

In just the past three years, the number of acres devoted to permanent crops increased by more than 15 percent, while field crops declined by almost 8 percent. (The total number of acres planted in field crops still significantly outweighs the acres in permanent crops - 437,000 acres compared to 64,000 acres.

The demand for young almond trees is currently so strong, area nurseries are telling farmers it will be 2006 or later before they can deliver trees

This trend towards permanent crops is closely linked to the District's water supply. During the first half of the 1990s, regulatory constraints on the Central Valley Project kept water allocations to west side farmers at very low levels. From 1990 until 1995, south-of-the-Delta CVP contractors saw average allocations of only 38.5 percent. The situation improved significantly in the later half of the decade as CVP contracturs south of the Delta saw average allocations of better than 90 percent.

The connection is unmistakable, When there is a reliable and adequate supply of water, the farm-based economy will thrive," Birmingham said,

As the water supply picture has improved, so has the economic outlook for west side communities.

There are distinct advantages to growing the higher value permanent crops, both for farm as well as for the communities that support the agricultural economy on the Valley's west side," said economist Wendy Illingworth, "On-farm incomes are higher, employment patterns are nore stable and there is more long-term work for workers and farm-related businesses."

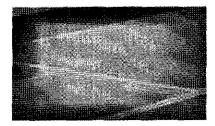
Illingworth predicted this trend toward more permanent cropping patterns in her exhaustive 2003 economic impact report on the District's land retirement program. As the District acquires and fallows land, additional water supplies become available for the other lands remaining in production These additional supplies contribute to confidence in the future of farming in Westlands and that results in farmers making the longer-term investment in

Since !!lingworth published her economic impact report, Westlands has purchased approximately 55,000 acres of drainage-impacted land. The District plans to purchase an additional 45,000 acres over

According to the 2003 grop report, the greatest decline in acres devoted to field crops has occurred in Acaia/Upland cotton. In just the past three years, the acreage devoted to Acala/Upland cotton declined by more than 58,000 acres or 32 percent. Other significant declines occurred in garbanzo beans, which dropped nearly 7,000 acres or 86 percent since 2000. Sugar beets saw a 42 percent drop in acreage, process tomato production dropped by seven percent and the acreage in alfalfa seed declined 89 percent. At the same time, farmers in Westlands planted ar additional 8,376 acres in almonds for an increase of

29 percent. Pistachio trees covered an additional 6,027 acres between 2000 and 2003 for a 117 percent increase Table grape production in the District grew by 22 percent

As the statistics suggest, almonds are leading the march to permanent plantings in the District. Almond trees in Westlands out produce all other regions of California. In fact, almond trees in Westlands regularly produce 4,200 pounds per acre - nearly double the statewide average



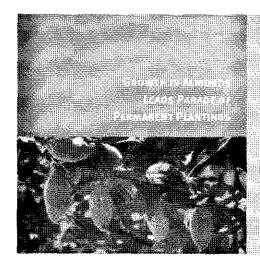
"Westlands is a dream come true for almond farmers," said Ross Borba, a principal in Borba Farms. "The climate, the soil and the expertise farmers have in water use and nservation makes this region remarkably productive for almonds.

Borba said many Westlands farmers were unwilling to make the investment required to switch to permanent crops when the water supply outlook was bleak. And, he said, there are other factors in today's farm economy that are helping farmers overcome their resistance.

Many farmers who grow cotton are concerned there will be changes in international markets for cotton that could be detrimental to U.S. producers, And despite continuing increases in production, prices for almonds remain strong.

"The almond industry has done a very good job developing new markets for almonds, both here in the United States and abroad," Borba said. He noted that California is expected to produce a record 1,1 billion pounds of almonds in the coming year.

"The farmers who made it through those really bad water years are starting to see a little brighter future," said Borba, "They are survivors and survivors tend to be a pretty optimistic group by nature."



On May 10, 5nd C. Hornia Agentalitural Statistical Service urrouncedity foretest for the 2004 simple cop a vibuoping 1, l'amonogunde il the forecest holds up. it met va California almond organistion with grow 6.6 percent over the previous year

Usually, it bumper crop like the 2004 almong forecast would be followed by a sharp crop in paces as producers and blovers affile anticipate an oversupply

cos: in California apen i like ocher celles. Price have replained relatively strong despit the increase in crospativity in April Hornois, Sapreme Amond prices hir \$2.25 per pound, targety because of coming widowipe demand, angressive may keping programs week U.S. doffar and a disappointing Spanish con-

Accepting to the Aircord Board of California, the state gindiges more han 80 percent of the world's almorth and nearly 100 percent of the almorths comprised in STATEWIDE, AUMONDS WERE WONTH more than 51 billion dollars in 2003 AND REPRESENT THE STATE'S NUMBER ONE AGRICULTURAL EXPORT.

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PERMANENT CROPS GOOD NEWS FOR WESTSIDE ECONOMY

SHIFT IN CROPPING PATTERNS BRINGS SHIFT IN WATER DEMAND



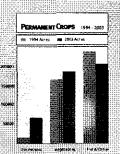
In the spring of 2003. Westlands Water District unveiled a detailed study that examined the likely economic impacts, of a proposal to purchase upto 200,000 acres of drainage impacted farmland, take them out of production and reallocate the water to the remaining lands. The study determined that after an unitial period of distocation, stabilizing the District's water supply would likely result in farmers investing in higher value permanent crops, such as fruit and must treet and vinevaria.

According to the latest crop report, the movement appears to be happening already

"It should not come as a surprise to anyone that farmers, if they have the water they need, will move into crops, with higher records" said Wendy Illingworth, author of the ground breaking 2003 Analysis of Economic Impacts of Proposed Land Returnment in West tlands Water District. "That's good news for farmers and good news for the communities on the west state."

Permanent crops such as almonds have a number of distinct advancages for communities. While the total number of workers needed at haves times be fewer than with field crops, permanent crops require more year round work. Workers and communities face fewer of the boom-bust cycles that keep west side unemployment figures high. An elated businesses, such as equipment prouders, also do better because permanent crops dreate more stable, largetterin economic foundations upon which small businesses thrings.





Westlands farmer Vince Marshall of Giogneri Farms said shinking farm profits are putting ascreasing pressure on farmers to reduce about costs through technologic more efficient impation, and transgenic crops. "On the other hand, permanent crops provide a straight stream of work with higher wages for vorkers," said Marshall who planted just under 500 scres of almonds and 100 acres of wine grapes this past year.

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Meraly III and Joseph Age (1917)

In her economic impact study, (Bingworth estimated that in 20 years, land retitement would result in goos revenues increasing 40 percent from orchards in Westlands compared to revenues if the District Rook no action to stabulate water supplies. During the same period, she predicted cotton revenues would decrease 25 covers. Also in this time, Mingworth said total employment in the District would increase by 1,500 jobs.

"When you see farmers putting in orchards and vineyards that won I start producing cops for several years, you are seeing farmers who are generally optimistic about the future, it means they are much more sketly to be here for the kong hatti. Illingworth said: As more and more Westlands farmers switch to permanent impa size outhinds and wineyards, the District on expect to see shonges in the way water is used. Virtually all of the new orchards being planted boday are being to open with highly suphistics and delp systems that allow trees to use move of the water applied to open greed to direct importion methods.

Drip systems can infigere crops with significantly less were than is required by other more cummon integers metricos, suida report by the traversity of California's Division of Agricultural Services. "For each pile, young ordhards, impated by a only system may require only one half as much water as those under sprinkles or surface impation."

Orchards and oneyards also have enough remails benefits for the District. They generally require fewer pestiodes to manage pests and therests less discs associated with cultural practices, in fact, new pechniques are being developed for almonds that well further reduce dust during the almond therest.

The increasing number of a cross partied in permanent crops after will admire Meeting and the control of the Co

become largely devoted to circhards or vineyards, the demand for water could exceed the design capacity of the District's water distribution system.

Currently, a variety of different crops, using a ribt of drip and sprinkler Infoation, provides a degree of fresholing that allows the District to be large the demand for water as any given time, with the District about a degree in

"It's not a question of whether there is enough water...
It's a question of whether the distribution system has enough capacity to get it to farms when it is reeded."

Theo Cauciner Deputy General Manages for Resources

"Comota question of whether there's enough water it can sometime, be a question of whether the Districts distribution system of purpos and sonderground pipes the convey water from the CPF curiabilities enough associty. To get its of arms when it is needed, "such Thad Bettor," Departy oner of Nanager for fire ources," We were unantly evaluating individual pipes in superty and demand to determine where the system may be one were asset We one attorn the materials and the most fire of the training of the most fire on the wild in arms at water water, and we say ever on clearly the water water, and water water, and where they need it."

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